

400 Garden City Plaza, Suite 300  
Garden City, New York 11530  
(516) 742-4343 - Telephone  
(516) 742-4388 - Facsimile  
e-mail: Intprop@ssmp.com

**SCULLY, SCOTT, MURPHY  
& PRESSER****Fax****RECEIVED  
CENTRAL FAX CENTER****OCT 18 2004**

|               |   |               |                               |
|---------------|---|---------------|-------------------------------|
| <b>To:</b>    | Examiner Alexander O. Williams  | <b>From:</b>  | Steven Fischman               |
| <b>Fax:</b>   | 703-872-9306  | <b>Pages:</b> | 6 pages including cover sheet |
| <b>Phone:</b> |   | <b>Date:</b>  | 10/18/2004                    |
| <b>Re:</b>    | U.S. Serial No: 10/627,794<br>Group Art Unit: 2826<br>Confirmation No: 2663<br>Docket No: YOR920030024US2 (16560) | <b>CC:</b>    |                               |

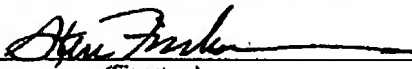
☐ **Urgent**    ☐ **For Review**    ☐ **Please Comment**    ☐ **Please Reply**    ☐ **Please Recycle**

**• Attached hereto:**


1. Certificate of Transmission by Facsimile
2. Amendment Transmittal Letter (In duplicate)
3. Response under 37 C.F.R. §§1.111 and 1.143

**CONFIDENTIALITY:** The documents accompanying this facsimile transmission may contain information which is either confidential or legally privileged and is intended only for the authorized use of the individual or entity named above without right or publication or republication, dissemination or disclosure except as expressly set forth or established by course of dealing. All rights are reserved. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of the contents of this facsimile is prohibited. If you received this transmission in error, please notify us immediately by telephone to arrange for return of the documents.


If you have any problems concerning this facsimile, please call (516) 742-4343 and ask for Grace Colucci at ext. 590 or via e-mail at gcolucci@ssmp.com..

|   |                                 |                                   |   |
|---|---------------------------------|-----------------------------------|---|
| <b>CERTIFICATE OF TRANSMISSION BY FACSIMILE (37 CFR 1.8)</b>  |                                 |                                   | <b>Docket No.</b><br>YOR920030024US2(16560) |
| Applicant(s): Stephan A. Cohen, et al.  |                                 |                                   |   |
| Application No.<br>10/627,794   | Filing Date<br>January 25, 2003 | Examiner<br>Alexander O. Williams | Group Art Unit<br>2826                      |
| Invention: INTERCONNECT STRUCTURES INCORPORATING LOW-K DIELECTRIC BARRIER FILMS   |                                 |                                   |   |
| <p>I hereby certify that this <u>RESPONSE UNDER 37 C.F.R. §§1.111 AND 1.143</u><br/>(Identify type of correspondence)</p> <p>is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. <u>703-842-9306</u>)</p> <p>on <u>October 18, 2004</u><br/>(Date)</p> <p style="text-align: right;"><u>Steven Fischman</u><br/>(Typed or Printed Name of Person Signing Certificate)</p> <p style="text-align: right;"><u></u><br/>(Signature)</p> |                                 |                                   |   |
| Note: Each paper must have its own certificate of mailing.  |                                 |                                   |   |

P18/REV02

|  |  |  |   |   |                                 |
|--|--|--|---|---|---------------------------------|
| <b>AMENDMENT TRANSMITTAL LETTER (Large Entity)</b>   |  |  |   | Docket No.<br><b>YOR920030024US2(16560)</b> |                                 |
| Applicant(s): <b>Stephan A. Cohen, et al.</b>  |  |  |   |   |                                 |
| Application No.<br><b>10/627,794</b>   | Filing Date<br><b>January 25, 2003</b> | Examiner<br><b>Alexander O. Williams</b> | Customer No.<br><b>23389</b>  | Group Art Unit<br><b>2826</b>               | Confirmation No.<br><b>2663</b> |
| Invention: <b>INTERCONNECT STRUCTURES INCORPORATING LOW-K DIELECTRIC BARRIER FILMS</b>   |  |  |   |   |                                 |
| <b>COMMISSIONER FOR PATENTS:</b>   |  |  |   |   |                                 |
| Transmitted herewith is an amendment in the above-identified application.<br>The fee has been calculated and is transmitted as shown below.  |  |  |   |   |                                 |
| <b>CLAIMS AS AMENDED</b>   |  |  |   |   |                                 |
|  | CLAIMS REMAINING<br>AFTER AMENDMENT    | HIGHEST #<br>PREV. PAID FOR              | NUMBER EXTRA<br>CLAIMS PRESENT  | RATE  | ADDITIONAL<br>FEE               |
| TOTAL CLAIMS   | 20 -                                   | 20 =                                     | 0 x   | \$18.00                                     | \$0.00                          |
| INDEP. CLAIMS  | 2 -                                    | 3 =                                      | 0 x   | \$88.00                                     | \$0.00                          |
| Multiple Dependent Claims (check if applicable) <input type="checkbox"/>   |  |  |   |   | \$0.00                          |
| <b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>   |  |  |   |   | <b>\$0.00</b>                   |
| <input checked="" type="checkbox"/> No additional fee is required for amendment.<br><input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____<br><input type="checkbox"/> A check in the amount of _____ to cover the filing fee is enclosed.<br><input checked="" type="checkbox"/> The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account <b>50-0510/IBM</b><br><input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.18.<br><input checked="" type="checkbox"/> Any patent application processing fees under 37 CFR 1.17.<br><input type="checkbox"/> Payment by credit card. Form PTO-2038. |  |  |   |   |                                 |
| <b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b>  |  |  |   |   |                                 |
| <br>Signature   |  |  | Dated: <b>October 18, 2004</b>  |   |                                 |
| <b>Steven Fischman</b><br><b>Registration No. 34,594</b>   |  |  | I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on _____<br>_____<br>(Date)<br>_____<br>Signature of Person Mailing Correspondence<br>_____<br>Typed or Printed Name of Person Mailing Correspondence |   |                                 |
| CC:  |  |  |   |   |                                 |

P11LARGE/REV08

|  |  |  |   |   |                                 |
|--|--|--|---|---|---------------------------------|
| <b>AMENDMENT TRANSMITTAL LETTER (Large Entity)</b>   |  |  |   | Docket No.<br><b>YOR920030024US2(16560)</b> |                                 |
| Applicant(s): <b>Stephan A. Cohen, et al.</b>  |  |  |   |   |                                 |
| Application No.<br><b>10/627,794</b>   | Filing Date<br><b>January 25, 2003</b> | Examiner<br><b>Alexander O. Williams</b> | Customer No.<br><b>23389</b>  | Group Art Unit<br><b>2826</b>               | Confirmation No.<br><b>2663</b> |
| Invention: <b>INTERCONNECT STRUCTURES INCORPORATING LOW-K DIELECTRIC BARRIER FILMS</b>   |  |  |   |   |                                 |
| <b>COMMISSIONER FOR PATENTS:</b>   |  |  |   |   |                                 |
| Transmitted herewith is an amendment in the above-identified application.<br>The fee has been calculated and is transmitted as shown below.  |  |  |   |   |                                 |
| <b>CLAIMS AS AMENDED</b>   |  |  |   |   |                                 |
|  | CLAIMS REMAINING<br>AFTER AMENDMENT    | HIGHEST #<br>PREV. PAID FOR              | NUMBER EXTRA<br>CLAIMS PRESENT  | RATE  | ADDITIONAL<br>FEE               |
| TOTAL CLAIMS   | 20 -                                   | 20 =                                     | 0 x   | \$18.00                                     | \$0.00                          |
| INDEP. CLAIMS  | 2 -                                    | 3 =                                      | 0 x   | \$88.00                                     | \$0.00                          |
| Multiple Dependent Claims (check if applicable) <input type="checkbox"/>   |  |  |   |   | \$0.00                          |
| <b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>   |  |  |   |   | <b>\$0.00</b>                   |
| <input checked="" type="checkbox"/> No additional fee is required for amendment.<br><input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____<br><input type="checkbox"/> A check in the amount of _____ to cover the filing fee is enclosed.<br><input checked="" type="checkbox"/> The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account <b>50-0510/IBM</b><br><input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16.<br><input checked="" type="checkbox"/> Any patent application processing fees under 37 CFR 1.17.<br><input type="checkbox"/> Payment by credit card. Form PTO-2038. |  |  |   |   |                                 |
| <b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b>  |  |  |   |   |                                 |
| <br>Steven Fischman<br>Registration No. 34,594  |  |  | Dated: <b>October 18, 2004</b>  |   |                                 |
| CC:  |  |  | I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on _____<br>(Date)<br>_____<br>Signature of Person Mailing Correspondence<br>_____<br>Typed or Printed Name of Person Mailing Correspondence<br>_____ |   |                                 |
|  |  |  |   |   |                                 |
|  |  |  |   |   |                                 |
|  |  |  |   |   |                                 |

P11LARGE/REV08

RECEIVED  
CENTRAL FAX CENTER

OCT 18 2004

RECEIVED  
CENTRAL FAX CENTER  
5167424366

# 5/ 6

2004

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****Applicant(s):** Stephan A. Cohen, et al.**Examiner:** Alexander O. Williams**Serial No.:** 10/627,794**Docket:** YOR920030024US2(16560)**Filed:** January 25, 2003**Art Unit:** 2826**For:** INTERCONNECT STRUCTURES  
INCORPORATING LOW-K DIELECTRIC  
BARRIER FILMS**Date:** October 18, 2004**Confirmation No:** 2663Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**RESPONSE UNDER 37 C.F.R. §§1.111 AND 1.143**

Sir:

In response to the Office Action dated September 16, 2004 applicants provisionally elect, without traverse, the subject matter of Group I, i.e., Claims 1-10, for continued prosecution in the above-identified patent application.

**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

**Dated:** October 18, 2004  
Steven Fischman**BEST AVAILABLE COPY**

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**